

03/13/12



Technical Report for

Delta Thermo Energy, Inc.

ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ

Accutest Job Number: JA99950

Sampling Date: 02/22/12



Report to:

Delta Thermo Energy, Inc.

rvannaarden@deltathermo.com

ATTN: Robert Van Naarden

Total number of pages in report: 13



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis Lab Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Delta Thermo Energy, Inc.

Job No: JA99950

ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
JA99950-1	02/22/12	15:10 MS	02/22/12	AQ	Water	WATER
JA99950-2	02/22/12	15:10 MS	02/22/12	SO	Solid	SOLIDS

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Delta Thermo Energy, Inc. Job No JA99950

Site: ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ Report Date 3/7/2012 10:30:02 AM

On 02/22/2012, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JA99950 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010C

Matrix: AO Batch ID: MP63018

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA99593-8MS, JA99593-8MSD, JA99593-8SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP63018-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ Batch ID: MP63024

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB145-1MS, JB145-1MSD were used as the QC samples for metals.
- JA99950-1 for Mercury: Elevated sample detection limit due to difficult sample matrix.

Wet Chemistry By Method ASTM D240-92

Matrix: SO Batch ID: GP63173

Sample(s) JA99181-1DUP were used as the QC samples for Heat Content, BTU.

Wet Chemistry By Method EPA 351.2/LACHAT

Matrix: AQ Batch ID: GP63279

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB81-1DUP, JB81-1MS were used as the QC samples for Nitrogen, Total Kjeldahl.
- Matrix Spike Recovery(s) for Nitrogen, Total Kjeldahl are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method SM18 2540G

Matrix: SO Batch ID: GN62616

The data for SM18 2540G meets quality control requirements.



Wet Chemistry By Method SM20 2540D

Matrix: AQ Batch ID: GN62246

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA99940-1DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method SM20 5210B

Matrix: AQ Batch ID: GP63170

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA99875-3ADUP were used as the QC samples for BOD, 5 Day.

Wet Chemistry By Method SM20 5220C, HACH 8000

Matrix: AQ Batch ID: GP63326

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB469-1DUP, JB469-1MS were used as the QC samples for Chemical Oxygen Demand.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results		
Report of Analysis		
T		

Report of Analysis

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Client Sample ID: WATER
Lab Sample ID: JA99950-1
Matrix: AQ - Water

Date Sampled: 02/22/12 **Date Received:** 02/22/12

Percent Solids: n/a

Project: ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ



Report of Analysis

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Client Sample ID: WATER
Lab Sample ID: JA99950-1
Matrix: AQ - Water

Date Sampled: 02/22/12 **Date Received:** 02/22/12

Percent Solids: n/a

Project: ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ



Report of Analysis

Client Sample ID: SOLIDS
Lab Sample ID: JA99950-2
Matrix: SO - Solid

Date Sampled: 02/22/12Date Received: 02/22/12Percent Solids: 28.3

Project: ACUA-Allentown, 6700 Delilah Road, Egg Harbor Township, NJ

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Heat Content, BTU	7460	100	BTU/lb	1	03/03/12	PB	ASTM D240-92
Solids, Percent	28.3		%	1	03/02/12	RO	SM18 2540G



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N/I	lisc.	Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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ACC	LJT	EST	
	LABOR	ATORIES	2

CHAIN OF CUSTODY

ACCUTEST, 50		IN OF CUSTODY Route 130, Dayton, NJ 08810		PAGE OF PN
LABORATORIES		9-0200 FAX; 732-329-3499/3480	FED-EX Tracking #	Bottle Order Control #
		www. acutest.com	Accurest Quote #	Accutest Job # JA 9 9 9 50
Client / Reporting Information		ct Information	Requested Analysis (see	
Company Name DE 1 7 A THERMOF AFRON	Project Name:	TONJOL		DW - Drinking Water
Company Name DELTA THERMOENERGY Street Accounts 66 Withous poon St. # (1) Prive Four John NJ OBJA: Prive Control Prive Control Front Control Final	6700 Delitich Road	Billing information (if different from Penget to)		GW - Ground Water WW - Water SW - Surface Water SQ - Soli
Primaton NJ 0854	Foo Harbor Travelie N	Company Name		SL- Studge SED-Sediment
Rob Van Naarden E-mail	PACUA	Street Address		OI - Oil LIQ - Other Liquid AIR - Air
Phone# Fax#	Client Purchase Order#	City State Zip	.	SOL - Other Solid WP - Wipe FB-Field Blank
Sampler(s) Name(s) Make A. Bound Phone #	Project Manager Rob Van Noardey	Attention:		EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
AIRT (HEN 30NO	Collection	Number of preserved Sottles		
Accordant Sample # Field ID / Point of Collection	MEOH/DIVIal ≉ Date Time	Sampled by Matrix #af-bottles by Matrix		LAB USE ONLY
1 ACUA-BOD	2/27/03:100			
2 ACUA - TSS.	2/22/12			AMET 4
3 ACUX-Metals	12-1 12 12			WC 26
4 ACUA-CODTKA		V		WC 39
5 ACUA-BTU	-2 V V			
Turnaround Time (Business days) Std. 15 Business Days	Approved By (Accutest PM): / Date:	Data Deliverable Information Commercial "A" (Level 1) NYASP Category		nments / Special Instructions
Std. 10 Business Days (by Contract only)	Approved by (Access PM): 7 Date:	Commercial "B" (Level 2) NYASP Category	100 - 00 - 00 - 00 - 00 - 00 - 00 - 00	
10 Day RUSH		FULLT1 (Level 3+4) State Forms NJ Reduced EDD Format		
5 Day RUSH 3 Day EMERGENCY		Commercial "C" Cther		
2 Day EMERGENCY		Commercial "A" = Results Only		
1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial		4 most
Retinguished by Samplery // I Clate Tiese:	Sample Cystody must by doca	mented below each unit samples change possession, inclu	diag courier delivery.	Received By:
1 Marco Bould 2/22	1/2 say fat the	Wary of Howard	1 dhate	2 JMV
Relinquished by Sampler: Date Time: 3	Received By	Batinquished By:	Date Time:	Received By:
Relinquished by: Date Time: 5	Blacaived By: 5		Intact Preserved where applicable Not intact	On ice Cooler Temp.
			_	

JA99950: Chain of Custody

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Accutest Laboratories V:732.329.0200

Accutest Laboratories Sample Receipt Summary

Date / Time Received: 2/22/2012 17:45 Delivery Method: Accutest Courier Airbill #'s: Cooler Temps (Initial/Adjusted): #1: (3/3); #2: (3/3);	
Cooler Temps (Initial/Adjusted): #1: (3/3); #2: (3/3);	
<u>Cooler Security</u> <u>Y or N</u> <u>Sample Integrity - Documentation</u> <u>Y or N</u>	
1. Custody Seals Present: 3. COC Present: 1. Sample labels present on bottles: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
2. Custody Seals Intact: ✓ 4. Smpl Dates/Time OK ✓ □ 2. Container labeling complete: □	
Cooler Temperature Y or N 3. Sample container label / COC agree: ☑	
1. Temp criteria achieved: ✓ ☐ Sample Integrity - Condition Y or N	
2. Cooler temp verification: 1. Sample recvd within HT:	
3. Cooler media: 2. All containers accounted for:	
4. No, Coolers 3. Condition of sample: Intact	
Quality Control Preservation Y N N/A Sample Integrity - Instructions Y N	N/A
1. Trip Blank present / cooler:	IV/A
2. Trip Blank listed on COC: 2. Bottles received for unspecified tests	
3. Samples preserved properly: ✓ 3. Sufficient volume recvd for analysis: ✓ □	
4. VOCs headspace free: 4. Compositing instructions clear:	✓
5. Filtering instructions clear:	✓
Comments NO ANALYSES REQUESTED ON COC, ANALYSES ARE LISTED WITH THE SAMPLE ID'S	

2235 US Highway 130 F: 732.329.3499

JA99950: Chain of Custody

Dayton, New Jersey www/accutest.com

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Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA99950

CSR: Tony Esposito Response Date: 2/23/2012

Response: Log in using analysis listed in ID column, per project history.

4.1

Dayton, New Jersey www/accutest.com

JA99950: Chain of Custody

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